

Last Sunday Dr. Gerald Bull, the director of the Space Research Institute at McGill, spoke to the I.S.A. about the Institute and the projects in which it is engaged.

The S.R.I. is a part of McGill which carries on research but is not a faculty. It is rather a home for workers on varying phases of space research. Graduate students enroll in their particular facul-

Dr. Gerald Bull and the McGill Space Program

ties and do their work at the Institute.

The type of research done tends to be applied and pressing since, though some funds come from grants, they are mainly from contracts from companies such as NASA which supplies money to in-

vestigate problems they are interested in. No money comes from McGill. In fact McGill receives a fee for administration.

One of the projects S.R.I. is investigating is the protection of spacecraft against meteors. In the very beginning

of S.R.I., researchers postulated a theory that on the impact of two bodies in space there results a plasma which expands. To investigate this a gun was set up at McGill which fired pellets at a very high velocity. However, in 1962 a little accident occurred

in the lab which "removed 400 windows from the Engineering Building" and also blew all the dust from the flues into all the offices. Graduate students spent the weekend cleaning up the worst of the debris before Monday morning. The Institute then had a brief sojourn at the University of Montreal before moving the experimental laboratory out to Highwater, Que. in late 1963. The experimental program there is now sponsored by NASA. To determine what happens on impact, the field station has acquired a very good camera system with two cameras recording each shot, taking pictures at rates of 1 1/2 million and 4 1/2 million frames per second.

Another study in progress is to determine what happens when materials are dumped in space.

The largest single project of S.R.I. is H.A.R.P. which aims to put a satellite in orbit from a gun. There are three approaches to increase the velocity sufficiently: firstly, increasing the pressure; secondly, using low pressure and a very long barrel; and thirdly, using normal pressure and a very long barrel which is the method used by S.R.I. The 16 inch gun at Barbados is currently 119 feet long and will be extended further, which provoked the wry comment: "We know you are going into orbit, but we didn't know you were going to do it with a gun barrel."

The facilities of S.R.I. are the headquarters at McGill, the Engineering Lab at Highwater, Que., the big one at Barbados; and another gun at Lima, Ariz. where recovery is easier.

The probes used are the Martlett series, the Martlett 2's with no rockets, the Martlett 3's which are rocket assisted and the Martlett 4 under development which will go into orbit.

Dr. Bull was very critical of the Government in Ottawa for its lack of a space policy. And in the ensuing discussion detailed some of the problems of doing research of this type in Canada.

11th
November



McGill-De Times



Smith and
Remember

MACDONALD COLLEGE

NOVEMBER 11, 1966

Blood Drive Surpasses Goal

Thursday, November 3 was the date of the annual Macdonald College Blood Drive. This year the goal was set at 650 pints of blood and we topped this with a total of 652 pints.

The drive was well-organized and congratulations are extended to the Blood Drive Committee chaired by Molly Sadler for their hard work and success. Many thanks also to those

Val Smith F.D.; Alan Bird Agr. 1; John Wilson 2 DP; Rosemary Simpson F.D.; Alex Manson Agr. 3; George Webber F.D.P.; Gabrielle Blank F.D.; Fred Joyce Agr. 3; Roland Lajeunesse Rent-a-cop.

Dip Agr I	75%	50%
Class '71	73	35
BED PE	72	55
Class '68	61	52
Dip Agr II	55	28
BED I	55	7
Class '69	52	40
Dip PE II	50	38
2D	50	36
Class '67	44	34
FD	40	16
FBP	40	11
FDP	39	21
2B	38	24
Post Grad	34	29
2S	29	25
IG	5	3



by Brooks

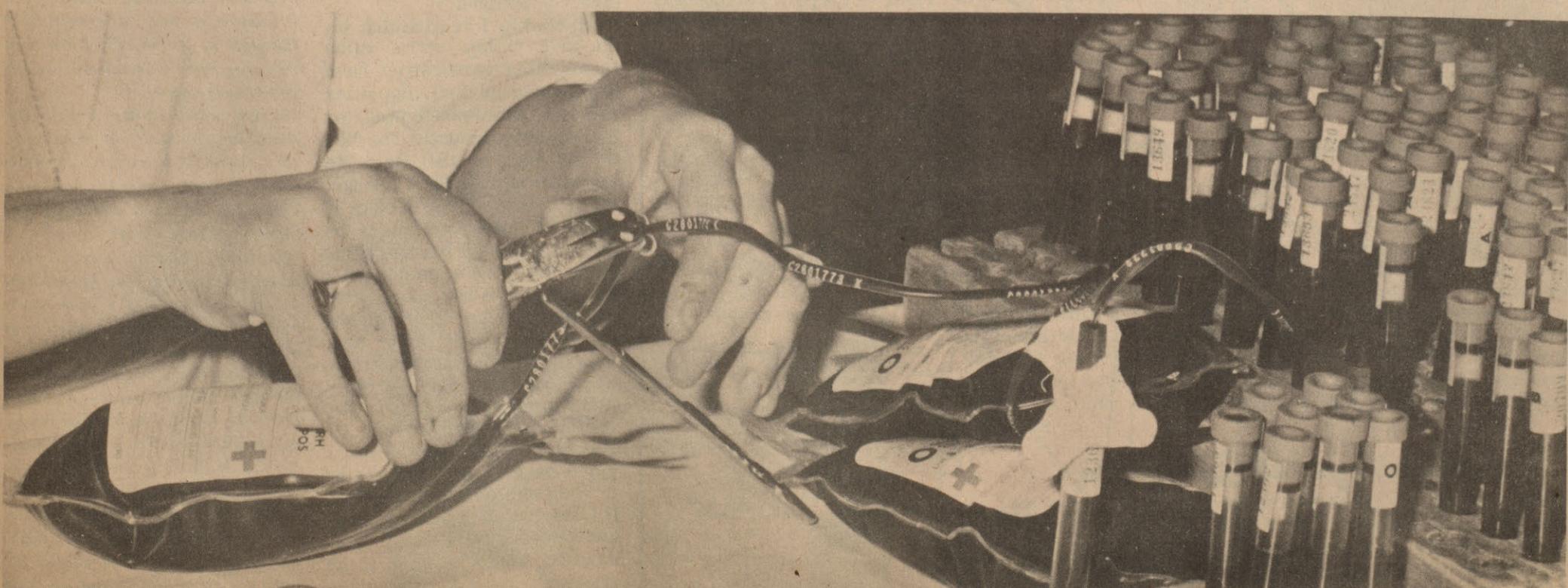
people who took the time to come out and support this worthy cause.

Donors were treated to cookies, donuts, coffee and Coke. Entertainment was provided by some of the students with accordian and guitars accompanied by voices raised in song. Door prizes were donated by stores and other commercial establishments in Ste. Anne. Winners of the drawings were:

Lorraine Gillmeister - 2D received a prize for being the 650th blood donor.

Winners of the trophy for the highest class registration were the Aggie Dips (as usual). The percentage of class participation was as follows:

OUR
THANKS
FOR THE
652
PINTS



Blood, Blood, Blood, & More Blood

by Ho

Editorial

High School Curriculum Outdated?

Just what is the aim of High Schools in this province in producing students? Frankly I find the whole question baffling — let us examine some of the products in analysis of the problems experienced by this university.

Approximately 53% of first year students in Home Economics and Agriculture "flunk out" and only 1/4 ever finish with a clean slate — if indeed at all. This is not surprising when one observes in a first year Physics Lab that many students carry out their calculations by long division and multiplication. Slide rules, let alone log tables, are an unknown quantity.

Many students have either had no Physics at all or little or no Chemistry. The level of mathematics is indicative of a previous remark herein.

It is hardly fair on anyone with these deficiencies to be expected to carry the normal first year load. These conditions force the university to waste time on such subjects as Geography, English, French, History, elementary mathematics and the like. It is an utter waste of time to have Ph. D's teaching logs or simple machines to first year students. These are elementary and high school subjects. If a student is un-

able to express himself in his mother tongue he has no right to be at a university, for the knowledge he gains is wasted in his inability to convey it to others. If he wishes to be a technician let him attend a technical college.

But I hold that high schools are not solely to blame. The universities are too — for catering to the high schools. This is a sorry state of affairs — one always thinks of the high school catering to the university.

In this light it is most distressing to hear of the new five year curriculum for I feel that McGill should merely have informed the high schools that its entrance requirements would be of a certain level at a certain date. I have seen this happen in another country — why not here? Granted there will be pre-university institutes; but what guarantee is there that these will be any better than the present system. If the present standards continue these institutes will be of no avail. The universities are paying for this in having to teach what should have been covered in high school.

In answer to my original question I can only conclude that the high schools appear to have some ill-defined intention to prepare all for university. If this they fail miserably for to start with it is a ridiculous notion. On their shoulders must rest the high water mark of "flunkies" — 65-75% of university entrants.

Letters to the editor

Childish Quips

Editor,

This letter is addressed to the few ignorant students who feel that the message board in Brittain Hall is used to express vulgar language. It is well taken care of by the staff and there is no reason why they, nor us, as students must read the childish quips that someone has the audacity to write.

Steve Casselman

No Respect

Dear Sir:

There are two qualities which many students at this college no longer possess, respect and courtesy. At last Monday's Education Assembly, there was ample proof of this. Invited to speak to Education students was Mr. J. Keith, Director of Communications for the P.A.P.T. When the platform party entered the Assembly Hall, only half a dozen students rose from their seats. It is assumed that everyone has been told of the general procedure when guest speakers enter yet no one seemed to respond. Also, as the platform party rose to leave, they were considerably delayed because students were in such a great hurry to leave. It was an insult to Dean Hall

and to Mr. Keith to have been caught up in the melange of students. It is hoped that such disrespectful behaviour will not occur again. It made all prospective teachers look very bad indeed.

Eva Kunz

Blast You!

Dear Sir:

When I read the October 28th edition of the Fault-Ye I was most depressed. My only reaction was, "I just don't believe this place!" Here were three articles on subjects vital to us all — the lack of daring in college papers, public drinking, and the Mac image. Delighted, I read on. But the ideas were exactly opposite to what a normally spirited college student would hope for. WHY is this college so conservative and dull? Here we are on the verge of cracking up or quitting in disgust (what a marvellous choice we have!), because our college has not even begun to live up to our expectations, and what do we have but a defence of and a plea for more conservative behaviour. Are we a bunch of old women?

First, the Mac image. Of course, most people (even in Montreal) have not even heard of the place. Those that have

treat it with due scorn — "oh, that little farm college" or "but it's just like a high school". And so it is. But it doesn't have to be.

A university should be a place where people learn to think — not just about their courses, as in a technical school — but about life, values, philosophies. We should learn about people and ideas. We should develop an outlook on life formed on experience, discussion, and reading. At Macdonald most "students" are interested only in a degree so that they can go out to work and earn a decent living. Employment is not the be-all and the end-all of existence. They are preparing themselves to be the grey men who never think, rarely act, and who are never either happy or sad because they do not know enough to recognize either one. Their intellects will become so dead that they can no longer experience emotion.

Part of our university experience should be plain fun. And if we carry it too far and get into trouble — well — we learn even more from reflecting on that. Compare Macdonald to other colleges and it falls flat. Very flat. Here I refer to the policy of the newspaper and to the public drinking "problem".

When I agree with Richard Needham that a newspaper needs irresponsibility and colour, I do not mean that the editor should run around rashly insulting professors and administrators at every opportunity. But would it hurt to have more controversial articles — about subjects other than "please sir, which are the senior tables"? You avoid the subjects which are most important to us all. Even a little criticism and satire (important) would be great! You don't have to support all the nice little organizations which are going to make us into nice, clean, upstanding, honourable, dead citizens.

Contributing to the glory of college life should be wild stunts, drinking under blankets at football games, wild orgies of drunkenness, laughter and sex, as well as the more elegant entertainment of champagne and formal dances. I really feel that, personally, as a spectator, if I drink, I enjoy games more, and am better able to "support the team". Anyway, in Ste. Anne's we do not have a hotel where girls can drink. If people could have fun at Macdonald, it might have a better reputation, at least among students, and we could give our friends a good impression without avoiding direct questions.

Of course I realize that we do have rather strict rules (some other universities have dry campuses too), but rules can be circumnavigated or conveniently ignored. The risk is all part of the fun. We can also agitate for a change. While I am on the subject of rules, I might comment on this practise of barring girls from the men's residences. Dreadful! We have absolutely nowhere to go. Even Queens (a fairly conservative university) now has certain times when the residences are open. And I don't mean these silly regimented "open houses".

I could carry on for several more pages, but I am trying to keep this comment general. If I started on the appearances and personalities of the students, I would be sure to be attacked.

We need a bit of wildness in our lives unless we are to

THE FAULT-YE TIMES

Member of the C.U.P.
"The Voice of Macdonald College"

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"Letters to the Editor" published in this paper express the opinions of the writers and are not necessarily those of the Editorial Board.

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fall into a rut. Granted, some people are content lying with heads buried in a rut. But those of us who think, and read, and study people, and who have experienced a different life, cannot be content. At Macdonald we have a terrible lost feeling of forever searching for something. We can never find it if we confine our lives to classes and studying and trotting home to mummy on the weekends. There is nothing in this kind of life to look forward to — only continual depression and wandering. We might as well help raise the student suicide rate.

Dear Editor:

I really mean this, and it bothers me very much. I hope you will print part or all of this letter even though I do not sign my name.

ED. NOTE: —

It is not the policy of this paper to print letters from people who do not have the guts to stand behind their statements by identifying themselves. Opinions are only of value when one knows the source, for this is the root of their validity or invalidity. However, we print the above in the hopes that the inspired "pen" who prefers to duck out will realize that in remaining anonymous, it becomes identified with those it choose to criticize.

A little close scrutiny of the editorial of October 28th, will reveal that the interpretation given it above is not with sufficient foundation. We refer in particular to paragraphs four and six — without further comment.

Last year the paper went a continual cry against the apathy on this campus. The result was merely to negate some of the little enthusiasm that existed. Criticism goes just as far.

Not only this, but a little more attention to what has been printed in this paper this year might prove rewarding in any attempt to analyze our policy.

Finally there are two points of interest. Firstly, is the fact that alcohol should be a necessary aid in enjoyment of a sport. Maybe the football game is due excuse to get inebriated?

Secondly, while it is granted and has been stated in this paper that many of the points raised are entirely valid, this would not be so if those among us who had

Continued on page 8



We hear they use our papers to line the chicken cages in the Chem. dept. Mom was real happy when I told her I was working on the college paper — wants me to bring a whole bunch home so's she can send them to our relatives and all.

Up and Coming

On Campus
Fri. Remembrance Day
 Service - 10:30 a.m.
 Film Night - 7:30 p.m.
Sun. S.T.S. Movie
Mon. Student Council - 7:00 p.m.
 Photography Meeting
 Sadie Hawkins Week Begins
 Interclass Debating
Tues. Gold Key Meeting
Wed. S.T.S. Executive Meeting - 7:00 p.m.
 Girlie Show
Thurs. Christian Fellowship - 6:30 p.m.
Fri. A.U.S. Employment Information Meeting
 Kirk's Court

Sports
Fri. Remembrance Day
 Basketball: at Mac - 7:00 p.m.
 Interclass Football Final - 12:30 p.m.
Tues. Basketball: Women's Senior -
 McGill at Mac - 8:00 p.m.
Thurs. J.V. Hockey: Mac vs St. Joseph's
 Basketball: Ottawa at Mac
 Hockey: Mac at St. Pat's

Deb. and Public Speaking

Our Macdonald debators: George Reh, Burleigh Trevor - Deutsch, Fizul Baccus and George Archibald returned disappointed from the Bishop's International Debating Tournament last week-end. What made this all the more frustrating was that in each case, they lost by less than five points in two hundred. The debators also expressed concern at the judging of the event. In classic style debating, the team that wins the argument also-wins the contest. This rule was discarded even though the tournament represented as one in the classic style. They feel that their win-less ratio might have been considerably altered had the judges been differently oriented.

I think it should be noted that this was the first inter-collegiate competition for three of the four debators and that Macdonald can look forward, in future months and years, to some very good teams.

The annual Macdonald College public speaking contest was held on Thursday, November 3. There were seven contestants competing for the trophy and we were pleased with the polish displayed by all. The winners were:

1st: Gordon Myer 2D
 2nd: Steve Casselman Agr. '68
 3rd: Bryna Wasserman 2D

This represents five, four, and three class points for placing first, second and third respectively.

Canada Could Begin to Change Trend

CHESTER RONNING, former Canadian High Commissioner to India and a recent peace emissary to Vietnam:

WHEN I criticize the "contain China" policy of the western powers, remember I have stated that as far as Canada is concerned we are completely responsible for our own foreign policy and we can blame no foreign government.

If we choose to accept the policy of the United States that is our business; and we have supported that policy, which is based in my opinion on a completely fallacious analysis: that Mao Tse-tung was a puppet of the Soviet Union when he took power in 1949, that if they had an opportunity the Chinese people would soon throw out the new government and welcome the return of Chiang Kai-shek. No one can believe in this analysis any longer.

The tragedy is that the policy based on this analysis is still going on — 17 years after the new regime came to power. And the new regime today is no longer the government of the poor, downtrodden, humiliated

nation; a new world power has emerged . . .

★ ★ ★
 We have excluded 700 million of the world's people from all of the international deliberations on the problems that face the world . . .

★ ★ ★
 What about Vietnam? We put the responsibility on the other side but it is time that we in the West accepted some responsibility for recognizing the situation. China is not behind the war. It, like other wars of liberation, is

based upon a local situation . . .

★ ★ ★
 As to the United Nations it is not a question of inviting China in, it is a question of deciding

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Meet at Taverne Cousineau STE. ANNE DE BELLEVUE



Council Corner

By Harold Cook

Compared to the last three meetings of the Students Council during which many new items were brought to attention, this week's meeting was much like a recap. However, this was necessary for many committee reports were due and last Monday night was the cause for a great deal of consideration, both because of the Student Society meeting and because of the events related to the night of pumpkins and broomsticks.

Committee Reports

Among the reports given was a rundown on the attempts to date to stabilize the varieties of College dress and insignia available at Robbers Roost. The committee has made decisions on sweat shirts, night shirts, and the size of letters, but will report in two weeks on such items as wearing class or club crests on Mac jackets. The present policy concerning Class parties is causing considerable conflict as evidenced with campus parties and the recent African Society Party. It is hoped that the forth-coming report of the vice-president concerning party rules and regulations will avoid any future complications along this line.

Action on Hallowe'en Incident

By now most have considered the incidents on campus and downtown on Hallowe'en as a tale of the past, but not without due thought to the seriousness of the happenings. The Council President has forwarded a letter of apology to the mayor of Ste. Anne de Bellevue on behalf of the students involved. The Students Council is still in favour with the preferential treatment system existing between the local police force and the College Residence Committee. Any aggravation of the present situation appears most unwise at this stage, but things are not riding idly on. In the same vein, second thought might well be given to the seriousness of the letters from Dean Brawn before turning them over for scrap paper.

Residence Committee Changes

Within the next two weeks the Constitution Committee (with the 2nd Vice-President as newly appointed chairman) will meet with the Presidents of Mens and Womens Residence Committees to discuss the changes within the committees. Recent revisions have given the Residence Committees a wider scope of authority as they can now levy fines to non-resident students when the need arises. In conjunction with this, a new name for the Committees may be in the offing. In the meantime, the changes within the Committees have not kept them idle for this week the Old Coffee Shop opened during the noon hour under the supervision of Mens Residence Committee. This action came mainly as a result of the suggestions put forth at the last Student Society Meeting.

Athletic Budget

Several other items discussed stemmed from the student meeting on October 31. The most startling of these was the brief report given by the Treasurer concerning the Athletic Budget. The impression was left, and for some reason not clarified by several present at the meeting who actually knew the score, that something is or has been hidden. This is far from actuality as both M.A.A. and W.A.A. have full copies of the Athletic budget and the same is available to the Council. Neither should we be crying as to the fate of our eleven dollars from fees. This is grossly supplemented by McGill to give us an athletic program far beyond what we could supply on our own. A more complete report will be tabulated and made available for all to see.

Reserve & Increased Fees

The Finance Committee will be considering the possibility and wisdom of raising fees and will leave recommendations for next year's Council, but in the meantime, Council supports the present policy of reserves. A definite limit to the reserve fund would prove difficult in the future but a safety deposit of some kind is necessary. It is highly unlikely that any Council will act to build up a reserve unnecessarily at the expense of student activity. It was pointed out that the total amount collected from fees is actually spent on student activities and it is the money from other sources, such as Book Shop and vending machines that goes into reserve.

Letters From The Dance Committee

Two points arose from letters from the president of Dance Committee. Suggestion has been made that the S.T.S. take over the responsibility for Junior Prom. This would appear to be cutting off the Junior Aggies and Home Ec. classes for no reason. Once again the greatest benefit can be gained by

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Council Corner continued from page 3

co-operation and perhaps some type of amalgamation of effort would be wise. There is also a bit of conflict in the present system of exchanging tables and chairs in preparation for formals in the Dining Hall. It is hoped that a compromise can be reached before plans for the next big dance become too far advanced.

Commuter Common Rooms

Council Members must have foresight to the future as they have been asked for suggestions for a speaker at next year's Memorial Assembly. Once again Council Members are open to suggestions.

Memorial Speaker

The S.T.S. reported their distaste of the condition of the Common Rooms available to Commuters in the main building. Why should they be locked at 5:00 p.m. when many use the library later than this? Is a dirty floor to be accepted without complaint? These resentments are worthy of attention but since administration is responsible, a letter to the registrar seems in order. There appears to be no reason why such action would not bring results.

Council meetings are not always long hours of factual student business, though much is involved in a lengthy meeting like that of November 7th. It is the occurrence of the birthday of one of the members that gives excuse for a well deserved informal party and a bit of relaxation. Hope your roommate enjoyed the cake as much as we did, Barry!

C.U.P.Cuts

(1) Appointments:

Dr. Leopold Lamontagne, Dean of Faculty of Letters at Laval Varsity, appointed First Executive Director of the Service for Admission to College and University (S.A.C.U.). The Service will provide forum for discussion of university and college entrance standards on a Canada-wide basis and "will establish testing procedures for entrance admission to colleges and universities across Canada". Dr. Lamontagne assumes office Jan. 1, 1967; Headquarters at Ottawa.

(2) Resignation:

Dr. John B. Macdonald, President of the U. of British Columbia, resigned position; announced Wed. Oct. 26; served for 5 years. Plans on devoting his energies to other aspects of the educational field.

(3) Withdrawals:

St. Dunstan's Varsity, Charlottetown, quit the Canadian Union of Students, week of Oct. 26. Reason--that C.U.S. is getting involved in political matters.

(4) Universities

Students at the University of British Columbia may gain representation at their College's Senate. "A President's Committee Report on faculty participation in university government, released Monday, Oct. 24, recommended that two students be appointed to the university senate" reported the C.U.P.

(5) Protest:

U. of Lethbridge students; against the Colleges newly appointed Board of Governors, actually "against the type of people chosen by Alberta's Education Minister, Randy McKinnon.

Students also protested the appointment of their present College Principal, as the new Varsity President. Any reasons? Yes. He receives \$19,000 a year as President and he's only a BA graduate. Students feel a varsity president should have a PhD or "at least some record of intellectual experience at the senior administration level".

Unity:

U. of Alberta - the Anglican and United churches a amalgamated; joint services held each Sunday Evening under guidance of Anglican and United Church chaplains. C.U.S.

Acadia University's students examining a proposal to withdraw from the Canadian Union of Students.

University Gov't:

Professors on Canadian University campuses decided they want more say in planning aims of education, reported the C.U.P. Later Developments will be brought to your notice.

Sadie Hawkins

Week

Nov. 14 - 19

Show Us What You
Can Do Girls!

Research Reports

Nutrition of an Ever Increasing World Population

The problem of feeding an ever increasing human population is the formidable challenge confronting agricultural scientists throughout the world. The task is not simply one of providing enough food but rather it is one of meeting the daily nutrient requirement of each individual. It has been estimated, for example, that two glasses of milk per person per day would be adequate to essentially eliminate the severe protein deficiency syndromes endemic to the economically underdeveloped areas of the world. Thus the animal nutritionist, who in our affluent western society devotes most of his energy to providing a more luscious diet for an already over-fed population, must expand his efforts to supply high quality protein as efficiently as possible.

Since most of our farm livestock population, especially swine and poultry, compete directly with humans for their food supply you may logically ask, "How long do we expect to be able to continue to meet our protein needs through high quality and palatable animal proteins, such as steaks and pork chops?" The answer to this question depends upon how successful the animal nutritionist will be in utilizing products that are unsatisfactory for human consumption in the feeding of farm animals. Even at the present time much of the protein used in animal feeds arises as a by-product of the human food industry. Products such as fish meal and meat meal are processed wastes salvaged from our fishery and meat packing industries while soybean meal and rapeseed meal are protein by-products of the vegetable oil industry. More recently the animal nutritionist has investigated the nutritive value of algae grown on sewage wastes as a feed for livestock. The efficiency with which these products can be converted to pork chops and broiler chicken will dictate what contribution animals will make to our total nutrient needs.

Nutrition Research at Macdonald

Research activity in our laboratory is directed towards elucidating some of the nutritional factors associated with efficient production of quality meat products. This article will deal with only two of these projects.

One of our projects involves the evaluation of various feedstuffs in meeting the protein, or more specifically, the amino acid requirements of the growing pig. Body proteins are complex molecules made up of some 20 individual amino acids 10, of which are classified as essential for the growing pig. In other words, these 10 amino acids cannot be synthesized by the pig and therefore must be supplied in the diet. A deficiency of any one or more of these 10 amino acids will result in very poor growth. The problem, however, is greatly simplified by the fact that diets commonly used in feeding pigs are deficient in only 2 of the 10 amino acids; lysine and methionine. Thus the task facing the nutritionist is one of meeting the pig's requirement for lysine and methionine with a minimum of dietary protein because protein constitutes one of the major costs of the diet.

Meeting the pig's requirements for lysine and methionine, however, is complicated by the fact that not only are they frequently limiting in the diet but they may be in a form that is unavailable to the animal. Heat damage during the processing of proteins, for example, has a very profound effect on the biological availability of lysine. An assay method that would give a quick and accurate indication of the adequacy with which a particular diet meets the animal's amino acid requirements would be very useful not only to the animal but to the human nutritionist. We have been studying the usefulness of plasma-free amino acid levels, that is the plasma concentration of the individual "building blocks" of protein, as a measure of protein quality (or amino acid adequacy) of different combinations of feedstuffs. Analyses of the blood plasma following a meal of the test diet shows a very marked change in the free amino acid concentrations. Continuing work in the project should tell us how well the plasma amino acid levels correlate with those in the test diet.

Our investigations have been greatly facilitated by the recent acquisition of an automatic amino acid analyzer, an instrument which gives the complete plasma amino acid pattern in less than 11 hours. A similar analysis 20 years ago would have taken weeks, if not months, to complete. Thus new techniques in nutrition research are becoming available each day as a direct result of advancing technology in other fields of science.

Starvation and the Overfat Pig

Another major portion of the effort in our laboratory is devoted to studying fat metabolism. One of the major problems facing the pork producer is overfat hogs. With heart and vascular disorders the number one killer in North America the consumer is being constantly warned of the possible danger of saturated animal fats in the diet. The animal



scientist is extremely conscious of the potential danger of animal fat and as a consequence has devoted considerable effort to the breeding and feeding of pigs with leaner carcasses.

Work in our laboratory has concentrated on the mechanism of fat synthesis, or as the biochemist terms the process - lipogenesis. Before any real success in controlling this process can be expected we must have a reasonable understanding of the mechanisms involved in lipogenesis. Our investigations have dealt with the metabolic response to refeeding following starvation because the most profound finding in a starved-refed animal is a marked increase in fat synthesis. It has been shown, for example, that one-third of the total weight gain by the starved-refed animal is the result of body fat accumulation. By taking advantage of this adaptive metabolic response we have been able to demonstrate that the composition of the diet used during refeeding determines to a large extent the pattern of the observed response. High levels of dietary sugar stimulate or "trigger" lipogenesis while dietary protein and unsaturated fats prevent or limit the accumulation of body fat. Once we have some appreciation of the changes that occur in the body during accelerated lipogenesis we can attempt to control these processes through dietary manipulation. At least we may be able to make an educated guess as to how we might feed animals to ensure a quality meat product.

Modern Nutrition

The above examples illustrate the type of research being conducted in our laboratory. In addition, they serve to convey the basic approach being used in nutrition research in 1966. Today research in the feeding of farm animals endeavours to discover and understand the basic processes involved in the growth and development of animals. Such an understanding will enable animal agriculture not only to produce meat more efficiently but to give the consumer a quality product.

by
Bruce E. McDonald
Department of Animal Science

Treasure
Van
is
Coming

Hypnotist at Large



Drive much?

by Larry Neil

A rollicking-rolling, fun-filled night was enjoyed by the large crowd that attended the AUS Hypnotist Show last Friday night. Jim Robertson, Master Hypnotist, assisted by his wife Elaine and Fraser Downey, provided an evening of clean wholesome entertainment. In two and one half hours, and for only 50¢, we were entertained by everyone from Ed Sullivan to Queen Elizabeth.

The show ranged all the way from the ridiculous goings on of a group of teachers in 1976 to a supreme rendition of God Bless America. At one point, when a primary student had been excused from the class, the show came very close to obscenity. It was only the quick thinking of the hypnotist that prevented such a thing.

Throughout the evening, Jim

Robertson kept his show clean and entertaining. He should receive highest praise for his performance and AUS should be encouraged to see that there is a return performance in the near future. This is one of the best forms of entertainment we are going to have on campus and I am sure that at another performance students and faculty alike will pack the Assembly Hall.

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who shall be represented in the U.N., which government, the government in Taiwan or the government in Peking. I think most people agree that it is inevitable, it is only a question of time. But I think time is of the essence today . . .

★ ★ ★

Neither China nor the U.S. wants to become involved but escalation step by step is getting dangerously close to the place where China will get involved and as soon as China thinks its national security is endangered China will come across into North Vietnam just as assuredly as she came to North Korea across the Yalu River when the power sites which supplied the only power for the Manchurian industry were in danger . . .

★ ★ ★

I would like to leave with you the message of four Chinese symbols: Under Heaven One Family.



Don't lose your head over the act.

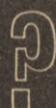
by Neil

cupihot 453-5681

102 RUE STE-ANNE
PRESCRIPTIONS CARLTON CARDS LAURA SECORD
REVLON

Wanted

PREFERABLY



VERY

ALIVE

LAYOUT ASSISTANT

FOR

CLAN

yearbook

APPLY: In writing, to Janet Marsh, Laird Hall, or Nancy Groome, Stewart. Preferably 2nd or 3rd year, with some experience.

NEED IMMEDIATELY!

HELP!

PROOF READERS NEEDED TO DRIVE INTO
VILLE LaSALLE TO PROOF READ THE FAULT-YE

- MILEAGE PAID -
- THURSDAY MORNINGS -

The Editorial Board is in need of a Features Editor -
Apply to Editor-in-Chief, P.O. Box 334, Macdonald College

FRED LORENZETTI RESTAURANT

PIZZA PIE - SPAGHETTI
39 Ste. Anne St. - 453-9926 - Ste. Anne de Bellevue.
Open all day

Film Night
SPONSORED BY
THE WEST INDIAN STUDENTS ASSOC.
TONIGHT NOV. 11th
C250 - 7:30p.m.

Come and see:
1 - Vancouver.
2 - Manitoba.
3 - Gymnastics at the 4th Pan-American Games . Brazil.

ALL ARE INVITED
NO CHARGE.

BROADLY SPEAKING

The Women's Page



After careful consideration

by Betty

The Closest-to-the-Campus
SHOE REPAIR CENTRE
Shirt Laundry and Dry Cleaning
B. Bourassa
41 Ste. Anne St.,
Ste. Anne de Bellevue.

Bijouterie DUROCHER Jeweller
Watch Repairs - Engraving
44 Rue Ste-Anne
Ste-Anne De Bellevue, Que.
Tel. 453-4244

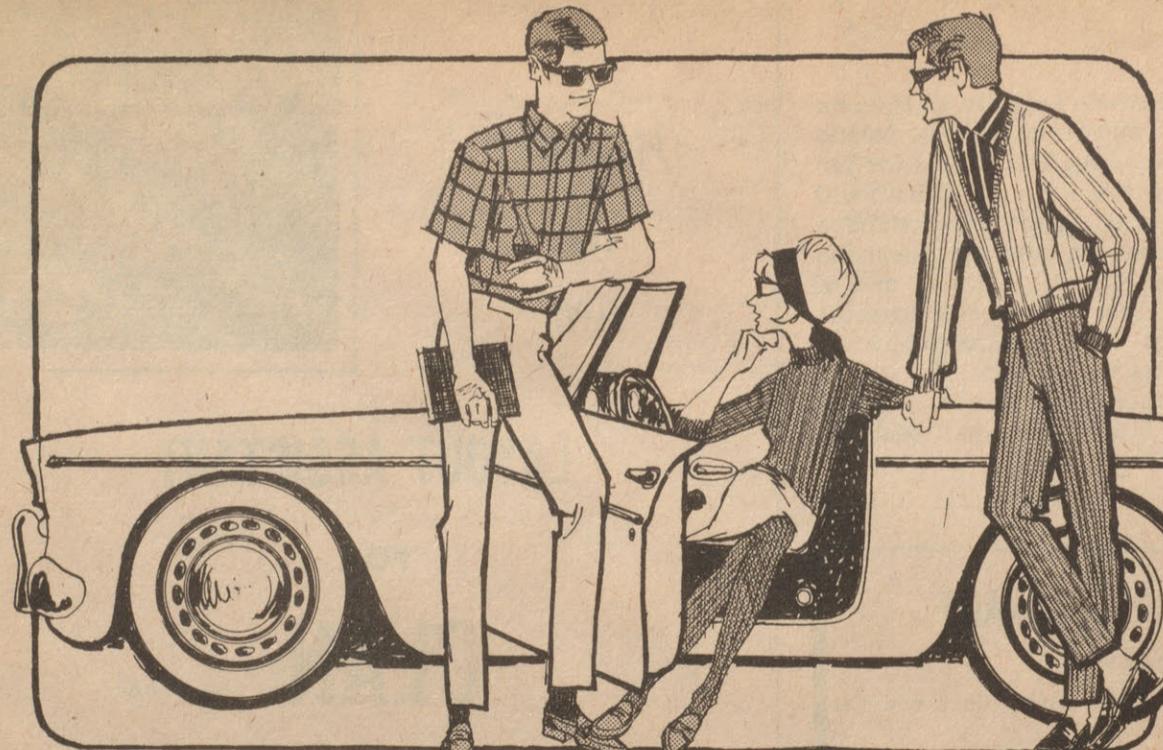
HOULE PHARMACY
Tel. 453-5143
27A Ste. Anne St.
Closest Pharmacy to Campus
Free Delivery

Suits - Coats - Accessories
L.P. BRUNET
MEN'S FURNISHINGS
1165 Ste. Anne St. - Tel. 453-2477

I have decided that exams really
don't scare me

RAYMOND CLEANERS

Perluxe Dry Cleaning
Shirts Laundered
26 Ste. Anne St. - Tel. 453-4457
Free Pickup and Delivery



Handsewn loafers (PLAYBOYS that is!) have the sharp look

Handsewn PLAYBOYS loafers are to ordinary loafers as Corvettes are to pogo sticks.

Hewetson handsewn PLAYBOYS are crafted in mellow leather in a rich cordovan shade. They are true moccasin construction. This means the upper, one piece of gentle leather, goes right under your foot and cradles it in unmatched comfort. Cushion heel pads—man they're soft. Steel shanks for extra support.

Why not take a pair of handsewn PLAYBOYS home today. About \$16.95



PLAYBOYS BY HEWETSON

a division of Shoe Corporation of Canada Limited

Open Your Door To Adventure

The Experiment in International Living was founded in 1932, and now encompasses 65 countries. It is an independent, non-profit, educational organization whose programs are based on the conviction that one best learns to understand another people and their culture by living among them as a member of a family.

Each year many young people between the ages of sixteen and thirty, travel in small groups of about ten to Africa, Asia, Europe, Latin America and the Middle East for a stay of about two months. The first month is spent in living as a son or daughter of a family and the second month in travelling about the country in question.

Groups of young people are going out from Canada as well as coming in, and if you wish to find out more about the scheme for your own young people, you can do so through Mrs. Van Heyningen who is the Regional Co-ordinator for

the Province of Quebec. Mrs. Van Heyningen makes all the arrangements for students who come to this area and is responsible for placing them in families. Baie D'Urfe has the honor, this Christmas, of being the first community in the Province of Quebec, to play host to a complete group of ten young Mexicans, six girls and four boys.

Mrs. Van Heyningen arranges a Welcome - Evening for host families and their guests as soon as the latter arrive, and last year the visiting students, all Mexicans, gave a farewell party to their 'families' at the Y.W.C.A. It was a Mexican Posada, or Christmas Fiesta and for it they had brought their native costumes and all the food from Mexico. They danced their National dances and everyone had a marvellous time.

The many thousands of persons who have taken part in this adventure, either as tra-

veilers to other lands or as families who have offered hospitality to visitors from abroad, have proved that through this demanding but rewarding experience, the individual may make a significant contribution to the cause of international understanding.

Participants are carefully selected, but there are no restrictions because of race, creed or national origin. Financial aid may also be given in the form of scholarships and grants.

So this year open your door to adventure! Give yourselves and your family something a little different. New friends, new ideas, a new country to love, a new language to learn, a new horizon. Telephone or write Mrs. L. Van Heyningen, at 453-6414, 709 Victoria Drive, Baie D'Urfe, who will be delighted to hear from you.



... much! by Betty too

CUSO

There are countries, as we all know, that are underdeveloped in agricultural practices, educational facilities and medical care. These countries need realists - people who are ready to get down to work, to help in some small way for the betterment of this underdevelopment. People who know how to teach biology or grow barley, how to cleanse a wound or build a house. These are the type of people needed who are prepared to slug it out through a tough demanding job. These are the people most wanted to help in countries like India, Madagoriar, Uganda, Peru, Sorowak.

What is this article all about? What is C.U.S.O.? You may well ask. It is a national agency created to develop and promote overseas service opportunities for Canadians. It arranges for the placement of qualified men and women in countries that request their services.

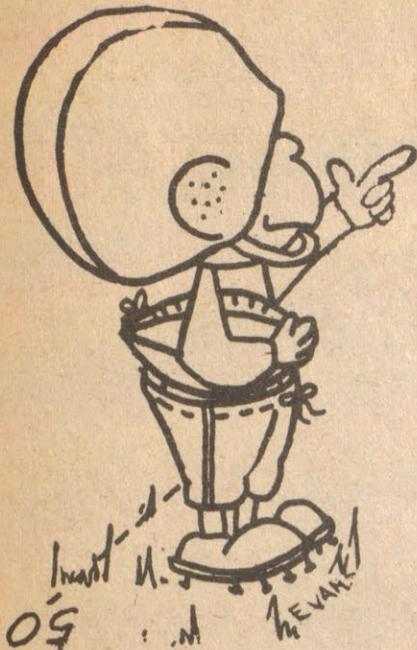
C.U.S.O. works through local co-ordinating committees, located in most universities.

but serving the whole community. Abroad, it works through different international agencies who assist in placement of personnel.

Last year Helen Forsey was asked to form such a committee for C.U.S.O. at Macdonald College so that the students may find out for themselves some of the opportunities there are in volunteer work overseas. Continuing again this year the C.U.S.O. Committee had its first meeting last Monday to discuss how C.U.S.O. should be presented to the student body. The committee comprised of Graham Foss, Tom Kear -- two return volunteers; Alan Campbell -- Chairman; Elaine Duncan -- Secretary; Marilyn Reid, Ed Owusumanu, Helene Delisle, Sheree Mulay, Marg Elliot.

Those interested in C.U.S.O. should keep their eyes open for during this month meetings and travel talks will be given to stimulate interest. If there are any urgent needs for more immediate information don't hesitate in contacting any of the above who will be willing to help.

A. Campbell.



SPORTS

Interclass Swim Meet
Wednesday and Thursday at 7:30 p.m.
in Brittain Hall Pool
Get your teams organized

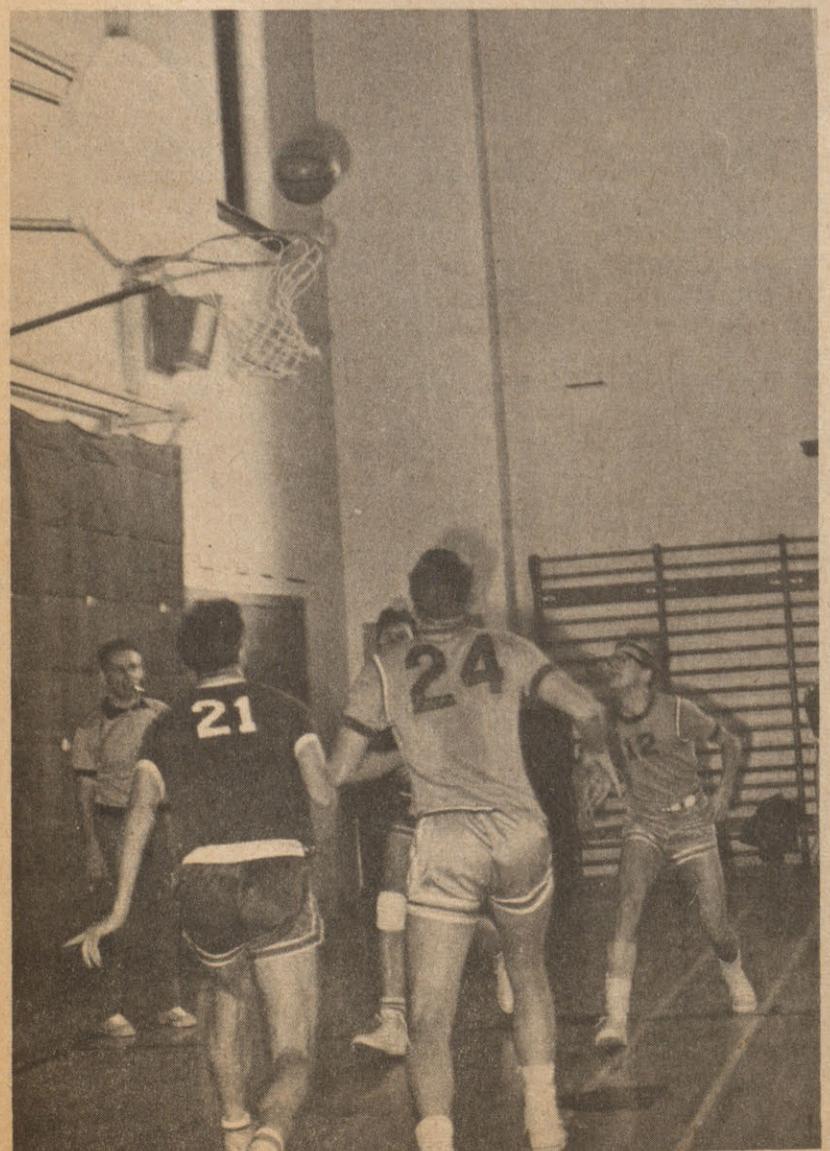
Mac Holds Sir George to 1-1 Draw in Final Game



Morris moves in.

by McDonald

Varsity Basketball Underway



Exhibition Game Today - 8:00
 Stewart Gym.
 Mac Clansmen vs U. de M. Carabins.

With only a week before the opening league game of this basketball season, the prospects of our Clansmen look extremely bright for a successful year. In the crop of returnees are included three M.V.P.'s of former years in the persons of Winston Ingalls, Doug (Stick) Boyd, and Al Armitage, as well as four of last year's rookies.

Some of this year's hopefuls are Bob McLeod, a former Carleton Indian and Bill Holt, an ex-member of the Junior Orchids' starting five. Bob Whitney, Louis Von Guelpe, Paul Freeman, Jim Freeman, and Rollie Lalonde round out the team's strength.

Under the fine coaching of Mr. P. Baker, the team is looking forward to a winning season. We hope that all of you will help support your '66-'67 Clansmen in their bid for the league championship.

Remember the first league game on November 18 in Stewart Gym.

Steve Jackson
 John Robinson

Ring of Life

Ring of life
 Black as gold
 Second to none
 Once to behold - a burning desire!
 Kindles within ... a passion.
 Magnetic bird of
 Clinging limbs
 The spread of birth
 Carnivorous thrust fulfilled
 Streams life within.
 Throbbing flow of inner worth
 Spasmodic anxiety
 -- of tensions' time
 Blissful deliverance of cyclic gems
 Unfolding paths of future's end.

J.E.D.

Brilliant defensive work by Owusu and custodian Schiwe, and scheming by forwards Morris, Sauer and Garino enabled the Mac Clansmen to hold Sir George to a 1-1 draw on Wednesday, November 2.

During the first half, Mac was mainly on the defensive, and the few chances we got at scoring were not converted. It was a defensive error, however, that gave S.G.W.U. their lone goal. The half ended 1-0 against Mac.

In the second half the Clansmen came back fighting as our defense held off the Georgian forwards. Raid after raid by the Clansmen forwards were well rewarded in this half. A scheme between Garino, Sauer and Morris enabled the crafty latter to get the ball in the corner of the net as the Georgian keeper sprawled on his back. The half continued with both the Clansmen and the Georgians trying to goals, but

by this stage, the teams were evenly matched. The final score was Clansmen 1 - S.G.W.U. - 1.

WANTED

Original ideas for a poster campaign to
KEEP OUR COFFEE SHOP CLEAN

1st prize - \$10
 2nd prize - \$5

Contest closes Nov. 17

SO HURRY

Entries may be submitted to:
 Sharon Conn, Laird Hall
 Glen Jamieson, Brit. Hall

The Lakeshore Chamber Music Society

welcomes new members to attend a series of concerts to be held in Adair Hall Union Church, Ste. Anne de Bellevue.

Acolian String Quartet (from London) - Nov. 18, 1966
 Baroque Trio of Montreal - Feb. 10, 1967.

Students can obtain membership tickets at \$5.50 each by calling:

453-4307 453-6563 697-3889 636-1158

This is a non-profit organization.

Watch for the **I.S.A. INTERNATIONAL NIGHT**
 Saturday, November 26 featuring
 The Marunczak Ukrainian Dance Ensemble

FOR MACDONALD STUDENTS ONLY

The New St. Anne's Sweet Restaurant

(Near "The Film Box")
 75 Ste. Anne St.

We give a **20% Discount** on all meals at anytime

You are welcome to enjoy our food

Open 7:30 a.m. - 12:30 a.m.

PLEASE SHOW IDENTIFICATION

Football

Clansmen Lose Final - Play 500 Ball

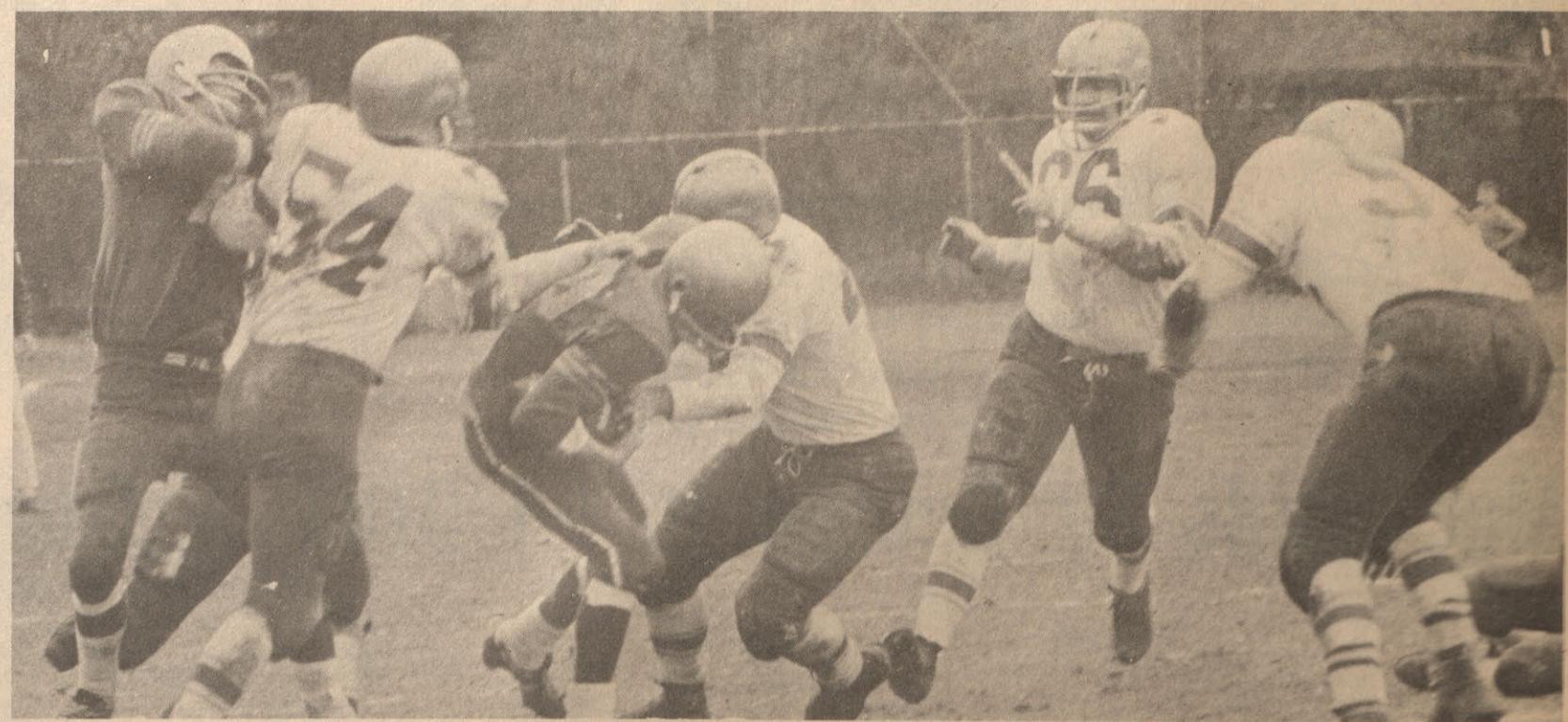
**St. Pats 16
Mac 2**

The Clansmen after winning three straight games by a wide margin finally were beaten by the powerful St. Pat's from Ottawa. By losing this game which was their fourth straight to this team over the past two years they lost any hopes of a championship this year.

The Clansmen had high hopes in the game as did the spectators which journeyed to Ottawa but these were dashed when the word came that Mac's offensive star Winston Ingalls was not able to play because of a severe case of the flu. One player of course cannot win games but the absence is like a missing cog in a clock and when one is not there it cannot run smoothly. Several times the ball was in ideal position for the major but each time Mac was unable to score against the leak proof goal line defence of St. Pat's.

St. Pats Draw First Blood

St. Pat's scored the first points of the game as they moved the ball into Mac territory with short running plays, they were stopped short of a first down but a field goal was attempted by Fosberry



Are we in it? No we're not.

by McDonald

which was good and St. Pat's were ahead by 3-0, this proved to be enough as Mac was only able to score 2 points and this was accredited to Taylor as he tackled the St. Pat's ball carrier in his own end zone after a field goal attempt by Mac proved no good.

Fosberry scored St. Pat's first touchdown as he picked up a loose ball and made a great run for the major, the convert proved no good.

The second St. Pat's touchdown was scored by Laramie as he carried up the centre for

the major. The convert attempt was good, and St. Pat's were ahead to stay.

Mac came out fighting and during the second half only allowed St. Pat's 3 first downs while they picked up 17; but the damage had been done and the Clansmen even though they moved the ball at will were unable to finish off at the goal line and subsequently were doomed to defeat.

As the statistics show Mac lead in most of the columns except the scoring. They were able to pound out 23 first downs to 9 of St. Pat's and were able to out-rush the team from Ottawa 265 to 159. Mac's Jeff Pratt connected for 4 out of 12 passes to 5 of 17 for Fosberry. Mac had troubles in passing all afternoon and had 3 passes intercepted.

There were however some bright spots in the game mainly Norm Osgoode who, filling in for Ingalls played a great two way game. Ross McGibbon, John MacKenzie, Ron Sevigny and Dave Norcott played their usually fine defensive game and Alex Manson once again played a great two way game.

Well, this season is over and the Clansmen played 500 ball. What's ahead for next year, one can only guess and hope.

Dave Stiles,
Sports reporter



I'll take two.

by Jim Ho

the film box

Ste. Anne de Bellevue
24 hr. Information
453-5341

Fri., Sat., Nov. 11th & 12th
THE MOUSE THAT ROARED

and

THE PUMPKIN EATER
at 7:45 P.M.

Sun., Mon., Tues., Nov. 13-15
THE LONGEST DAY

D-Day World War II Classic
Sun. at 5 and 8 P.M.
Mon. and Tues. at 8 P.M.

Wed., Thurs., Fri., Sat. - Nov. 16-19
UMBRELLAS OF CHERBOURG

Evenings at 7 and 9:15 P.M.

**Support the
Clansmen
Exhibition Games in
B-Ball and Hockey
Tonight**

Continued from page 2

something to contribute would, instead of levelling the rather monotonous criticism of things which are glaringly apparent, get

stuck in and do something themselves. To stand back and state that what is here is monotonous and dull and of too poor quality to be associated with its pathetic in its negativity.

Ed.

Clashing Classes

The main clash of the classes last week was the semi-final football game between Agr. II and Phys. Ed. I played Monday, November 7.

The game, played on the main football field, was full of thrills and good plays when these teams went at it tooth and nail. Once again the playoffs will be held between Phys. Ed. I and Phys. Ed. II as the boys from education were victorious.

Phys. Ed. touchdowns were both scored by Bob Whitney on two fine plays. The last T.D. could really be attributed to quarterback O'Connell's fine thinking as he fired a perfect pass to Whitney while having a hard rush put on him. Cameron Clarke threw a bull's eye touchdown pass for Agr. II's lone T.D.

Again it seems that the championship laurels will be grabbed up by the Faculty of Education. The championship game will be between Phys. Ed. I and Phys. Ed. II who were pitted against each other in the last game of the season. Phys. Ed. I won the game 30-0. With offensive standouts like Whitney or O'Connell and defensive stalwarts Goulet and Smith, Phys. Ed. I seems assured of victory. However, anything may happen.

The big championship game will be on the football field Friday, November 11 at 12:30 p.m. It should be a good game to see!

Harrier Team Concludes Season

Mac's "Harrier" team concluded an injury riddled season last Saturday by placing a respectable third in the final Ottawa - St. Lawrence Inter-collegiate Championship race. Saturday morning, the team of five runners travelled to the University of Sherbrooke campus for the final competition. The race was dominated by the powerful squad from R.M.C.

and Mac's fivesome had to struggle to maintain their third place finish. For a team held together only by spirit and a love of running, the Mac harriers fared very well this season.

Team members are: Donald McDonald, Keith Fern, Wayne Boyle, Gerry Carrigan, Fred Hutchings.

Opening Mon. Nov. 7th.

until

SUNDAY Nov. 20th (incl.)

Caesar & His Romans

with Judy Bell (Singing M.C.)

Special Children's Matinee

SUNDAY Nov. 20th 3 P.M.

(no alcoholic beverages will be served)

The Vaudreuil Inn

453-6178